

FIELD CHANGE REQUEST (FCR) FORM

Project Name: Arkema Project Area – PDI Phase 1

Project No.: CF167

Client: LSS/Retia USA

Request No.: FCR-13

To: Madi Novak, EPA Date: December 16, 2021

Field Change Request Title: Use a Sonic Drill Rig for Vibracore Core Stations near Saltzman Creek.

Description:

Seven sediment coring stations in the upstream portion of the Arkema Project Area near Saltzman Creek could not be sampled using a vibracore vessel in November or December 2021 (SC-81, SC-82, SC-84, SC-85, SC-86, SC-87, and SC-93). Most of these stations were inaccessible due to shallow water depth (<5 ft) or were located on the riverbank due to the relatively low river stage. A few of the stations were attempted with the vibracore, but had poor sample recovery and refusal due to the sandy sediment at the stations. A different drilling method is necessary to collect sediment samples at these locations.

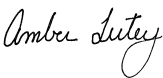
Recommended Change:

These stations will be drilled from a barge using a track-mounted sonic rig if there is sufficient water depth for the barge and tugboat. The sonic rig will be tracked off the barge and the stations will be drilled from the riverbank if they are on dry land, provided the stations can be safely accessed (e.g., riverbank soils can safely support the sonic rig).

The sonic drilling will generally follow the protocols in Sections 4.4.3 of the Field Sampling Plan, which is Appendix A to the Arkema Pre-Design Investigation (PDI). The sediment samples will be collected in 3-ft drives with a 3-ft long by 3-inch diameter galvanized steel Shelby Tube sampler (or equivalent technology). If insufficient recovery is attained using the 3-ft long Shelby tubes, 5-ft long by 3-inch diameter tubes will be used. The 5-ft tubes were successfully used for similar sediment sampling in the RM10W Project Area by Cascade Drilling, the drilling contractor selected for this work.

Some stations may not be accessible to the sonic drill rig due to changes in the river stage (e.g., too little water to accommodate the barge or too much water to safely drill from the riverbank). Sampling methodology for stations that are not accessible to the sonic rig will be evaluated as part of the Phase 2 PDI.

Amber Lutey
Field Operations Lead (or designee)



Signature

December 16, 2021
Date

Approval:

Eron Dodak
Project Manager



Signature

December 16, 2021
Date

Madi Novak

EPA Remedial Project Manager

Signature

Date

Distribution:

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